

Steel plate for for Boiler Pressure Vessel BS 1501 224 Gr. 490

224 Gr. 490 steel plate, BS 1501 224 Gr. 490 steel plates is a kind of material for boiler and pressure vessel steel. BS 1501 224 Gr. 490 steel plates is characterised by a minimum yield strength of 220 - 295 MPa and by good weldability,so 224 Gr. 490 steel is mainly used to for manufacturing boilers, pressure vessels and pipes transporting hot liquids.the following are BS 1501 224 Gr. 490 steel plate's Chemical composition and mechanical properties.

Chemical analysis -% by mass* (max)

Grade	C. %	Mn.%	S.	N	Cu	Nb	Ti.	Si.	P.	AL	Cr.	Mo.	Ni	Vi
224 Gr. 490	0.08-0.2	0.90-1.50	0.015	0.012	0.30	0.020	0.03	0.40	0.025	0.020	0.30	0.08	0.30	0.02

Mechanical properties

Grade	Type	Thickness mm	Yield strength Mpa(min)	Tensile Strength MPa	Elongation % (min)	Impact Energy (KVJ) (min)		
						-20°	0°	+20
224 Gr. 490	Normalized	≤16	295	460-580	21	27	34	40
		16>to≤40	290	460-580	21	27	34	40
		40>to≤60	285	460-580	21	27	34	40
		60>to≤100	260	460-580	21	27	34	40
		100>to≤150	235	440-570	21	27	34	40
		150>to≤250	220	430-570	21	27	34	40

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